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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model
Run on: June 17, 2003, 16:25:00 ; Search time 145.866 Seconds
(without alignments)
10334.327 Million cell updates/sec

Title: US-09-807-933B-12
Perfect score: 1041
Sequence: 1 atgaagtctccatcgcc.....ctggttgagcgcaagtaa 1041

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1029858 seqs, 724030393 residues

Total number of hits satisfying chosen parameters: 2059716

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:
2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:
3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:
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14: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	236.6	22.7	1423	9	US-10-007-521-9
2	235.2	22.6	1473	10	US-09-735-787-3
3	233.2	22.4	960	9	US-10-007-521-1
4	231.8	22.3	927	9	US-10-007-521-5
5	230.4	22.1	894	9	US-10-007-521-3
6	228	21.9	1174	9	US-10-007-521-11
7	217.2	20.9	1060	10	US-09-735-787-1
8	216.6	20.8	1261	9	US-09-261-329-23
9	213.6	20.5	1132	9	US-10-007-521-21
10	208	20.0	1154	9	US-10-007-521-7
11	207.4	19.9	913	9	US-10-007-521-13
12	205.6	19.8	885	9	US-10-007-521-23
13	158.4	15.2	808	9	US-10-007-521-15
14	157.6	15.1	1031	9	US-10-007-521-19
15	157.6	15.1	1048	9	US-10-007-521-17
16	138	13.3	425	9	US-10-007-521-25
17	132	12.7	936	7	US-08-841-636A-30
18	121	11.6	446	10	US-09-864-761-20699
19	119.8	11.5	1635	10	US-09-864-761-20241

20	119.8	11.5	1973	10	US-09-864-761-3471	Sequence 3471, Ap
21	115	11.3	1075	10	US-09-864-761-19241	Sequence 19241, A
22	115	11.3	1403	10	US-09-864-761-2513	Sequence 2513, Ap
23	104.8	10.1	401	10	US-09-864-761-3936	Sequence 3936, Ap
24	104	10.0	476	10	US-09-864-761-6	Sequence 6, Appli
25	103.2	9.9	155074	9	US-10-026-188-6	Sequence 6, Appli
26	102	9.8	830	10	US-09-864-761-19531	Sequence 19531, A
27	98.4	9.5	887	10	US-09-864-761-21484	Sequence 21484, A
28	98.4	9.5	1981	10	US-09-864-761-4745	Sequence 4745, Ap
29	98	9.4	479	10	US-09-864-761-768	Sequence 768, App
30	94.4	9.1	249	10	US-09-864-761-16846	Sequence 16846, A
31	93.6	8.9	470	10	US-09-864-761-3121	Sequence 3121, Ap
32	92.6	8.9	331	10	US-09-864-761-17053	Sequence 17053, A
33	92.6	8.9	465	10	US-09-864-761-230	Sequence 230, App
34	91.4	8.8	276	10	US-09-864-761-25120	Sequence 25120, A
35	91.4	8.8	537	10	US-09-864-761-8390	Sequence 8390, Ap
36	91.4	8.8	3015	9	US-09-373-658-37	Sequence 37, Appl
37	90.4	8.7	522	10	US-09-864-761-19900	Sequence 19900, A
38	88.4	8.5	493	10	US-09-864-761-5863	Sequence 5863, Ap
39	88.4	8.3	454	10	US-09-864-761-4149	Sequence 4149, Ap
40	86.2	8.3	574	10	US-09-864-761-228	Sequence 228, App
41	86.2	8.3	669	10	US-09-864-761-17051	Sequence 17051, A
42	84.8	8.1	253	10	US-09-864-761-20903	Sequence 20903, A
43	83.4	8.0	456	10	US-09-864-761-4249	Sequence 4249, Ap
44	82.4	7.9	350	10	US-09-864-761-23424	Sequence 23424, A
45	82.4	7.9	600	10	US-09-864-761-6690	Sequence 6690, Ap

ALIGNMENTS

RESULT 1
US-10-007-521-9
; Sequence 9, Application US/10007521
; Publication No. US20030054539A1
; GENERAL INFORMATION:
; APPLICANT: Schulein, Martin
; Andersen, Lene N.
; Lassen, Soren F.
; Kauppinen, Markus S.
; Lange, Lene
; Nielsen, Ruby I.
; Ihara, Michiko
; Takagi, Shinobu
; TITLE OF INVENTION: No. US20030054539A1el Endoglucanases
; NUMBER OF SEQUENCES: 109
; CORRESPONDENCE ADDRESS:
; ADDRESSES: No. US20030054539A1o No. US20030054539Aldisk of No. US20030054
; STREET: 405 Lexington Avenue, 64th Floor
; CITY: New York
; STATE: New York
; COUNTRY: United States of America
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/007,521
; FILING DATE: 10-Dec-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/651,136
; FILING DATE: 21-MAY-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J.
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4366.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; INFORMATION FOR SEQ ID NO: 9:

SEQUENCE CHARACTERISTICS:
LENGTH: 1423 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
FEATURE:
NAME/KEY: CDS
LOCATION: 110..1156
SEQUENCE DESCRIPTION: SEQ ID NO: 9;
US-10-007-521-9

Query Match 22.7%; Score 236.6; DB 9; Length 1423;
Best Local Similarity 62.7%; Pred. No. 1.1e-55;
Matches 387; Conservative 0; Mismatches 224; Indels 6; Gaps 1;

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Db |||||
227 TGGGAGGCAAGGATCGTCTCGAGGCTGTCTGACCTGTAAACAAGCAGGACAACCCC 286
Db |||||
538 CGTCTCGGTTCCGATGTCAGAGCGTTGGTTCGGCGGCCAGGCTACATGTGCAATGAC 597
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Db |||||
598 AACGAGCCGCTGGTTGTAATGACGACCTTGCCTACGCTTTTCGCTGCGAGTCTCGGT 657
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Db |||||
658 AGCGCCGCTGCTTGCATTTCTGCTGCGCTTTACGAGCTTACCTTACCAACACTGCT 717
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407 GCGCGCACTGAGGCGAGCTGCTGCTGCGCGTGTACGCCATTCATTCACAGTGGCCT 466
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718 GTCGCTGGCAAGAGTGTGCTGCTGAGGTCACCAACACCGGTGATGATCTCAGCAACAC 777
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778 CACTTTGATTTGAGATGCTGCGGCTGTGCTGCTACTTCAACGGCTGCCAGTCCAG 837
Db |||||
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Db |||||
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Db |||||
641 TGGGATGGCATGCCGAGCTCTTTGAAAGACGGTTGCCAGTGGCGCTTCGACTGGTTCAAG 700
Db |||||
958 AAGCTGACACCAAGGTCACCTTCAAGGCTGTTTACTTGGCTGCCGAGATCATTTGCC 1017
Db |||||
701 AACTCAGACCAACCTGATCGAGTTCGAGAGTCCAGTGTCCCAAGAGGCTCATTTGG 760
Db |||||
1018 AAGACTGTTGCGAGCG 1034
Db |||||
761 GTCTCTGGTGGTCCG 777
Db |||||

RESULT 2
US-09-735-787-3
; Sequence 3, Application US/09735787
; Patent No. US20010036910A1
; GENERAL INFORMATION:
; APPLICANT: Rasmussen, Grethe
; Mikkelsen, Jan Moller
; Schuilein, Martin
; Patkar, Shankan A.
; Hagen, Fred
; TITLE OF INVENTION: A Cellulase Preparation Comprising an
; Endoglucanase Enzyme

NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. US20010036910A10 No. US20010036910A1disk of No. US20010036
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/735,787
FILING DATE: 13-Dec-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/189,028
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 3469,214-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1473 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Fusarium oxysporum
STRAIN: DSM 2672
FEATURE:
NAME/KEY: CDS
LOCATION: 97..1224
SEQUENCE DESCRIPTION: SEQ ID NO: 3;
US-09-735-787-3

Query Match 22.6%; Score 235.2; DB 10; Length 1473;
Best Local Similarity 63.8%; Pred. No. 2.7e-55;
Matches 392; Conservative 0; Mismatches 213; Indels 9; Gaps 2;

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Db |||||
151 TCTGGAAAGCGTCACTCTACTCGATACTCGGATGCTGCAAGCTTCTTGGCTCTTGGAGC 210
Qy 484 GGAAGGCTTCTGTAACCTAAGCTGTACTCACCTGTGCCAAGGATGGTGTACGCCCTCTC 543
Db |||||
211 GGAAGGCTGCTGTCAAGCCCTGCTTAACTTGTGATAAGAACGACCAACCCCATTTCC 270
Qy 544 GGTTCGATGTCCAGACGGTTG---CGTCGGCGGCCAGGCTTACATGTGCAATGACAAC 600
Db |||||
271 AACACCAATGCTGTCAACGGTGTGAGGGGTGGTGTCTGCTTATGCTTGCAACCACTAC 330
Qy 601 CAGCCTGGGTGTCAATGACGACCTTTCCTACGGTTTCGCTGCTGCAAGTCTCGGTAGC 660
Db |||||
331 TCTCCCTGGGTGTCAACGATGAGCTTTCCTACGGTTTCGCTGCTGCAAGTCTCGGT 390
Qy 661 GCCGCTGCTCTGCATTTCTGCTGGGCTTTCAGAGCTTACCTTACCAACACTGCTGTC 720
Db |||||
391 GGTCCGAGGCGAGTGGTGTCTGCTGCTTGTATGCTTTCACCTTCACCACTGGGCCGTC 450
Qy 721 GCTGCGAAGAGTGTGCTGCTCAGGTACCAACACCGGTGATGATCTCAGCAACCAAC 780
Db |||||
451 AAGGGCAAGAGATGATGCTCCAGTCCCAACCACTGGAGGTGATCTCGGCGACAACAC 510
Db |||||

Wed Jun 18 17:55:12 2003

CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136
FILING DATE: 21-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366.200-US
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 927 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
FEATURE:
NAME/KEY: CDS
LOCATION: 1..924
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-10-007-521-5
Query Match 22.3%; Score 231.8; DB 9; Length 927;
Best Local Similarity 62.0%; Pred. No. 2e-54;
Matches 384; Conservative 0; Mismatches 232; Indels 3; Gaps 1;
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DB 59 TCTCGGGATCGCCAGACGACCGCGTACTGGGACTGCTGCAAGCCGAGCTGCGCTTGGC 118
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DB 179 ACGGCGGCTCCACCGGCTCCGCTGCGACGCGGGCGGAGCGCTTACATGTGCTCTCCC 238
QY 599 ACCAGCCCTGGTGTCTCAATACGACCTTGCTACGTTTCTGCTGCTCCAGTCTCGGTA 658
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QY 659 GCGCGGCTGCTCTGCATTTCTGCTCGGCTGTTACAGCTTACCTTCAACCAACTGTG 718
DB 299 GCAGCTCCGAGTCGAGTGGTGTCTGCGCTGTACGAGCTGACCTTTCACGCGGCGG 358
QY 719 TCGTGGCAAGAGTTTGTCTCCAGGTCAACACCGGTGATGATCTCAGACCAACC 778
DB 359 TCGCGGGCAAGAGATGATGTGCGAGGCGACCAACCGGTGCGACTTGGCGGCAACC 418
QY 779 ACTTTGATTTGAGATGCCCGGCTGTGTCGGCTTCTTCAACGGCTGCCAGTCCAGT 838
DB 419 ACTTTGACCTGGCCATCCCGGTGGGCTGTGCGTATTTTCAACGCTGCAACCGCAGT 478
QY 839 GGAACACCAACCGATGGCTGGGCTGCTGCTATGCGGCTATTAGCTCTATTTTCAGAGT 898
DB 479 ACGGCGCTCCCCGAAACGGCTGGGCGACCGCTTACGCGGCGATCCATTCCAAGGAGT 538
QY 899 GCACACAGCTTCCTACCCAGTTGCAAGTGGTTCAGAGTTCGAGATTCGGATGGTTCAAGA 958

DB 539 GCGAATCTCTCCGAGGCGCCTCAAGCCGCTCAAACTGGCGTTGACTGGTTCAAA 598
QY 959 ACGCTGACAAACCCAGAGGTACCTTTCAAGGCTGTTACTTGGCTCCCGAGATCATTTGCA 1018
DB 599 ACGCGCAACACCCGTCGCTACCTTCCAGGAGTGGCTGCGCCGTCGGAGCTCAGTCCA 658
QY 1019 AGACTGTTGGAGCGCAA 1037
DB 659 AGAGCGGCTGCTCCGTA 677
RESULT 5
US-10-007-521-3
Sequence 3, Application US/10007521
Publication No. US20030054539A1
GENERAL INFORMATION:
APPLICANT: Schuelein, Martin
Andersen, Lene N.
Lassen, Soren F.
Kauppinen, Markus S.
Lange, Lene
Nielsen, Ruby I.
Ihara, Michiko
Takagi, Shinobu
TITLE OF INVENTION: No. US20030054539A1el Endoglucanases
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:
ADDRESS: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136
FILING DATE: 21-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366.200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 894 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
FEATURE:
NAME/KEY: CDS
LOCATION: 1..891
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-007-521-3
Query Match 22.1%; Score 230.4; DB 9; Length 894;
Best Local Similarity 62.0%; Pred. No. 4.9e-54;
Matches 382; Conservative 0; Mismatches 231; Indels 3; Gaps 1;
QY 422 TCTCTGGAACGGTCCGACTACCGCTACTGGGATGCTGCAAGCCCTCTTGCCCTGGG 481
DB 59 TCTCGGATCGGCGACGACCGGCTGCTGCGGACTGCTGCAAGCCGAGCTGCGCTGGC 118


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RESULT 10
US-10-007-521-7
; Sequence 7, Application US/10007521
; Publication No. US20030054539A1
; GENERAL INFORMATION:
; APPLICANT: Schulein, Martin
; Andersen, Lene N.
; Lassen, Soren F.
; Kauppinen, Markus S.
; Lange, Lene
; Nielsen, Ruby I.
; Ihara, Michiko
; Takagi, Shinobu
; TITLE OF INVENTION: No. US20030054539A1el Endoglucanases
; NUMBER OF SEQUENCES: 109
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1
; STREET: 405 Lexington Avenue, 64th Floor
; CITY: New York
; STATE: New York
; COUNTRY: United States of America
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/007,521
; FILING DATE: 10-Dec-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/651,136
; FILING DATE: 21-MAY-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J.
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4366.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1154 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 51..935
; SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-10-007-521-7

Query Match      20.0%; Score 208; DB 9; Length 1154;
Best Local Similarity 59.4%; Pred. No. 8.3e-48;
Matches 374; Conservative 0; Mismatches 250; Indels 6; Gaps 1;

QY      408  CATTTCGTGGGGCTTCTCTCGAAACGGTTCGCACTACCCGCTACTGGGATTCGCGAAGCC 467
DB      89  CGTCGGCTGCTCAGAGCTCTGGCTCTGCCATACAAACAGGTACTGGGACTGCTGCAAGCC 148
QY      468  CTCCTGCGCCTGGGAAGCGTTCCTGTAACTAAGCCCTGTACTACCTGTGCGCAAGGA 527
DB      149  CTCATGCGCCTGGGATGAGAAGCGCGGTGTGAGCGCGCGGTGTCAACAATGCGACAGAA 208
QY      528  TGGTGTGAGCGCTCTCGGTTCCGATGTCCAGAGCGGTTGGCTCGGCGCGCGAGGCGCTACAT 587
DB      209  CAACAGACCCCTTTCCGCCCGCGCTGTGAGCGGCTGCGACCCCAACGCGGTGCAATTAC 268
QY      588  GTGCAATGACAAACAGCCCTGGGTGTCAATGACGACCTTGCTACGCTTTCGCTGCTGC 647

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269 CTGCAACGACAAACAGCGCTTGGCGCGTAAACAAACAAATGTGCGCTTACGGTTTGGCGGTAC 328
648 CAGTCTCGGTAGCGGGTGCCTCTGCAATCTGCTGCGGCTGTACGAGCTTACCTTAC 707
329 CGCTTCCCTGTGTGGCAATGAGCGCTGTGTGCTGTGCTGTATGCTCTTTCAATTAC 388
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768 CAGCACAAACCACTTTGATTTCAGATGCCCGGCTGTGTGCTGCTTCAACCGGCTG 827
449 CAGCGGCACTCACTTCGATTCAGATGCCCGGTGAGGTCTCGGCATCTTCGACGGCTG 508
828 CCAGTCCCACTGGAAACACCAACCGATGGCTGGGGTGTGCTATGCGGTATTAGCTC 887
509 CACCCCGCAGTTCGGCTTCAGTTCCCGGC-----AACCGCTACGGCGGTACCCAGAG 562
888 TATTTCAGATGGCAAGCTTCTTACCAGTTGCAGGCTGTGTGCAAGTGGAGATTCGG 947
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683 CCTCAGCAACCGCTCCGGCTCGCTCCGCAA 712
RESULT 11
US-10-007-521-13
; Sequence 13, Application US/10007521
; Publication No. US20030054539A1
; GENERAL INFORMATION:
; APPLICANT: Schulein, Martin
; Andersen, Lene N.
; Lassen, Soren F.
; Kauppinen, Markus S.
; Lange, Lene
; Nielsen, Ruby I.
; Ihara, Michiko
; Takagi, Shinobu
; TITLE OF INVENTION: No. US20030054539A1 Endoglycanases
; NUMBER OF SEQUENCES: 109
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. US20030054539A1 No. US20030054539A1disk of No. 1
; STREET: 405 Lexington Avenue, 64th Floor
; CITY: New York
; STATE: New York
; COUNTRY: United States of America
; ZIP: 10174-6401
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/10/007,521
; FILING DATE: 10-Dec-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/651,136
; FILING DATE: 21-MAY-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J.
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4366.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:
LENGTH: 913 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
FEATURE:

NAME/KEY: CDS
LOCATION: 41..706
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-10-007-521-13

Query Match 19.9%; Score 207.4; DB 9; Length 913;
Best Local Similarity 61.0%; Pred. No. 1.1e-47;
Matches 375; Conservative 0; Mismatches 231; Indels 9; Gaps 2;

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QY 430 AACGGTCGCACTACCGCTACTGGATTGCTGAAGCCCTCTTGGCGCTGGGACGAAAG 489
DB 101 AGCGCGGTGACAAACAGGTACTGGACTGTGCAAGCCGTCTTGTGCTGGACGGCAMA 160
QY 490 GCTTCTGTAACTAAGCTGTACTCACCTGTGCAAGGATGGTGTCAAGCGTCTCGGTTC 549
DB 161 GCATCGCTCTCAAGCCCTGCGAACCCTGCAATCAACGACACGCCAGACGCCGAGC 220
QY 550 GATG---TCAGAGCGGTTCGGTGGCGGCCAGCCCTACATGTCAATGACAAACACGCC 606
DB 221 GATCTGCTCAAGTCGTCTGTGATGGCGGCAGCGCTACTACTGCAGCAACACGAGGCCA 280
QY 607 TGGGTTGTCAATCAGCACTTGCCTACGGTTTCGCTGCTGCTGCCAGTCTCGTAGCGCGT 666
DB 281 TGGGCGGTGAACACAGCCCTTCTTACGGCTTCGCTGCCCAAGCTGTCCGGAAAGCAG 340
QY 667 GCCTCTGCACTTCTGCTGGCGCTGTACGAGCTTACCTTACCAACACTGCTGTGCTGGC 726
DB 341 GAGACTGATTTGTTGCTGTGCTGCTCAAGCTCACATTCACCTCCACCGCCGTTTCGGC 400
QY 727 AAGAAGTTTGTGTCAGGTCACCAACACCGGTGATGATCTCAGCACCAACCACTTTGAT 786
DB 401 AAGCAATGATGTCGAATCAGCAACGCGCGGCGACCTCGGCAACCACTTCGAC 460
QY 787 TTCAGATGCCCGCGGTGTGCTGCTACTTCAAGCGTGGCCAGTCCCGAGTGGAAACACC 846
DB 461 ATCGCCATGCGCGCGCGCGTGGCATCTTCAACGGGTGCTTCAAGCAATGGAACGGC 520
QY 847 AACACCGATGGCTGGGTGCTGCTATGGCGGTATTAGCTCTATTTCAGAGTGGCAAG 906
DB 521 ATCA-----ATCTGGCAACCAAGTATGGCGGCTTCACTACCGCTGCAATGGCAGC 574
QY 907 CTTCCTACCCAGTTGCAAGGCTGGTTGCAAGTGAGATTCGGATGGTTCAAGAACGCTGAC 966
DB 575 CTCCGCTCAAGTGGCAGGCGAGCTGCAACTGGCGCTTCGACTGGTTGAGAAATGCCGAC 634
QY 967 AACCCAGAGTCACTTCAAGGCTGTACTTGGCCCTGCCGAGATCAATGTCGAAGACTGGT 1026
DB 635 AACCCCAACCGTCAATTTGGAGGCTGTCACTTGGCCCAAGGAATTTGGTGGCCGAGTGGC 694
QY 1027 TGGAGCGCAAGTAA 1041
DB 695 TGTTCCGTTACCTAA 709
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RESULT 12
US-10-007-521-23
; Publication 23, Application US/10007521
; Sequence No. US20030054539A1
; GENERAL INFORMATION:

APPLICANT: Schulten, Martin
Andersen, Lene N.
Lassen, Soren F.
Kauppinen, Markus S.
Lange, Lene
Nielsen, Ruby I.
Ihara, Michiko

; Takagi, Shinobu
; TITLE OF INVENTION: No. US20030054539A1el Endoglucanase
; NUMBER OF SEQUENCES: 109
; CORRESPONDENCE ADDRESS:
; ADDRESSER: No. US20030054539A1o No. US20030054539A1disk of No. US20030054
; STREET: 405 Lexington Avenue, 64th Floor
; CITY: New York
; STATE: New York
; COUNTRY: United States of America
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/007,521
; FILING DATE: 10-Dec-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/651,136
; FILING DATE: 21-MAY-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J.
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4366.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 885 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..882
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
; US-10-007-521-23

Query Match 19.8%; Score 205.6; DB 9; Length 885;
Best Local Similarity 61.3%; Pred. No. 3.5e-47;
Matches 369; Conservative 0; Mismatches 224; Indels 9; Gaps 2;
QY 430 AACGGTCGCACTACCGCTACTGGGATTGCTGAAGCCCTCTTGGCGCTGGGACGAAAG 489
DB 61 AGCGCGGTGACAAACAGGTACTGGGACTGTGCAAGCCGTCTTGTGCTGGACGGCAMA 120
QY 490 GCTTCTGTAACTAAGCTGTACTCACCTGTGCAAGGATGGTGTCAAGCGTCTCGGTTC 549
DB 121 GCATCGCTTCAAGCCCTGCGAACCCTGCAATCAACGACCAACGCCAGACGCCGAGC 180
QY 550 GATG---TCAGAGCGGTTCGGTGGCGGCCAGCCCTACATGTGCAATGACAAACACGCC 606
DB 181 GATCTGCTCAAGTCGTCTGTGATGGCGGCGAGCGCTACTACTGCAGCAACACGAGGCCA 240
QY 607 TGGGTTGTCAATGACGACCTTGCCTACGGTTTCGCTGCTGCTGCCAGTCTCGGTAGCGCGGT 666
DB 241 TGGGCGGTGAACGACAGCCCTTCTACGGCTTCGCTGCCGCAAGCTGTCCGGAAGCAG 300
QY 667 GCCTCTGCAATTCGCTGGCGCTGTACGAGCTTACCTTCACCAACACTGCTGCTGCTGGC 726
DB 301 GAGACTGATTTGTTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
QY 727 AAGAAGTTTGTGCTCCAGGTTCACCAACCGCGGTGATGATCTCAGCAACCACTTTGAT 786
DB 361 AAGCAATGATCGTGAATACGAAACACGCGCGGCGACCTCGGCAACCACTTCGAC 420
QY 787 TTGAGATGCCCGCGGTGGTGTGCTGCTACTTCAACGGGTGCGAGTCCCGAGTGGAAACACC 846
DB 421 ATGCCATGCGCGCGCGGTGGCATCTTCAAGCGGTGCTTCCCAAGCAATGGAACGGC 480

Best Local Similarity 55.1%; Pred. No. 4e-34;
Matches 332; Conservative 0; Mismatches 268; Indels 3; Gaps 1;

QY 439 ACTACCGCTACTGGATTGCTCGAAGCCCTCTTGGCCCTGGGACGGAAGGCTTCTGTA 498
Db 118 ACACCGCTACTGGGACTGCTGCAAGCCAAAGCTGTGGATGGAGTGGAAAGGCTTCTGT 177
QY 499 ACTAAGCCTCTACTCTACCTGTGCAAGGATGGTGTGAGCGCTCTCGGTTCCGATGCCAG 558
Db 178 TCTGCTCCAGTCAGACTTTCGATCGTAATGGAATATACACTTGGCCAGACGTAAGAGC 237
QY 559 AGCGTTGCGTGGCGCCAGGCTTACATGTGCAATGACCAACAGCCCTGGGTTGTCAAT 618
Db 238 GGATGTGATAGCGGTGGAAGCTCATTCATCTGCGCAACAATGGTCCATTTGGGATGAC 297
QY 619 GACGACCTTGCCTACGGTTTTCGCTGCTGCCAGTCTCGGTAGCGCGGTGCTCTGCAATC 678
Db 298 AATAACACATGCATATGGTTTGTGTCAGCCCACTTAGCGGGCTCTAGCGAGCAGCCTGG 357
QY 679 TGCTGCGGCTGTTACGAGCTTACCTTCAACAACTGCTGCTGCTGCGCAAGAGTTTGTG 738
Db 358 TGTGCGCAGTGTACGAATTGACGTTTACGAGTGGACCCGTTAGTGGGAAAGAACTGACC 417
QY 739 GTCCAGGTCAACCAACCGGTGATCTCAGCACCACCACTTTGATTTGAGATGCC 798
Db 418 GTTCAAGTCAACCAACCGGAGGTGACCTCGAATAATCACTTTGACCTGATGCC 477
QY 799 GCGGTGCTGCGGCTACTTCAACGGGTGCGCAGTCCCGAGTGGGAACACCAACCGATGCC 858
Db 478 GGTGAGGTGTGGCTCTTCAACAAGATGTCTGCTCAAGTGGGAGCTGGAACG-- 535
QY 859 TGGGTGCTGCTATGGCGGTATTAGCTCTATTTACAGAGTGCACAAGCTTCTTACCCAG 918
Db 536 -GGGGTGTCTCAATACGCGGGGTGTCCAGCGGTGACCAATGCTCCCACTTCCAGCAGCT 594
QY 919 TTGAGGCTGTGTGCAAGTGGAGATTCCGATGGTTTCAAGAACGCTGACCAACCGAGTGC 978
Db 595 GTGCAAGTGGATGTCAATTCGTTTCGACTGGATGGGTGGCGCGGATAACCCCAACGTC 654
QY 979 ACCTTCAAGGCTGTACTTGGCCCTGCGAGATCATTGCCAGACTGTTTGGAGGCGCAAG 1038
Db 655 ACCTTCCGACCTGTGACCTGCGCCAGCAGCTCAATAATCTCGGGCTGTGTTGTA 714
QY 1039 TAA 1041
Db 715 TGA 717

RESULT 14

US-10-007-521-19
; Sequence 19, Application US/10007521
; Publication No. US20030054539A1
; GENERAL INFORMATION:
; APPLICANT: Schuelein, Martin
; Andersen, Lene N.
; Lassen, Soren F.
; Kauppinen, Markus S.
; Lange, Lene
; Nielsen, Ruby I.
; Ihara, Michiko
; Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1el Endoglucanases

NUMBER OF SEQUENCES: 109

CORRESPONDENCE ADDRESS:

ADDRESS: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1

STREET: 405 Lexington Avenue, 64th Floor

CITY: New York

STATE: New York

COUNTRY: United States of America

ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

QY 847 AACACGATGGTGGGCTGCTATGCGGTATTAGCTCTATTTCAGAGTGGCAAG 906
Db 481 ATCA-----ATCTGGGCAACGATGCGGCTTCACTGACCGCTCGCAATGTGCGAGC 534
QY 907 CTTCTTACCAGTTGAGGCTGTTGCAAGTGGATTCGATGGTTCAAGAACGCTGAC 966
Db 535 CTCCGTCGAAGTGGCAGGCGAGCTGCAACTGGCGCTTCGACTGGTTGAGAAATCCGAC 594
QY 967 AACCCAGAGTCACTTCAAGGCTGTACTTGGCTGCGGAGATCAITGCCAAGACTGTT 1026
Db 595 AACCCACCGCTCGATTGGGAGCGTGTCACTTGGCCCAAGAAATGTGTCGCCGAGTGGC 654

QY 1027 TG 1028

Db 655 TG 656

RESULT 13

US-10-007-521-15

; Sequence 15, Application US/10007521

; Publication No. US20030054539A1

; GENERAL INFORMATION:

; APPLICANT: Schuelein, Martin

; Andersen, Lene N.

; Lassen, Soren F.

; Kauppinen, Markus S.

; Lange, Lene

; Nielsen, Ruby I.

; Ihara, Michiko

; Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1el Endoglucanases

NUMBER OF SEQUENCES: 109

CORRESPONDENCE ADDRESS:

ADDRESS: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1

STREET: 405 Lexington Avenue, 64th Floor

CITY: New York

STATE: New York

COUNTRY: United States of America

ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/007,521

FILING DATE: 10-Dec-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/651,136

FILING DATE: 21-MAY-1996

ATTORNEY/AGENT INFORMATION:

NAME: Lambiris, Elias J.

REGISTRATION NUMBER: 33,728

REFERENCE/DOCKET NUMBER: 4366.200-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-867-0123

TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 808 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 37..714

SEQUENCE DESCRIPTION: SEQ ID NO: 15:

US-10-007-521-15

Query Match 15.2%; Score 158.4; DB 9; Length 808;

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136
FILING DATE: 21-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366.200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 1031 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 11..889
SEQUENCE DESCRIPTION: SEQ ID NO: 19:

US-10-007-521-19
Query Match 15.1%; Score 157.6; DB 9; Length 1031;
Best Local Similarity 55.1%; Pred. No. 7.1e-34;
Matches 330; Conservative 0; Mismatches 266; Indels 3; Gaps 1;
QY 439 ACTACCGCTACTGGGATTCGTCAGACCCCTCTTGGCCCTGGGACGGAAGGCTTCTGTA 498
DB 77 AGACCCGCTACTGGGACTGCTGCAAGCAAGCTGGGATGGAGTGGAAAGGCTTCTGTT 136
QY 499 ACTAAGCCTGTACTACCTGTGCGCAAGGATGGTGTGAGCGCTCTCGGTTCCGATGCCAG 558
DB 137 TCTGCTCCAGTCAGACTTGGCATGCTAATGGAATACACTTGGCCCGACGAGTGAAGC 196
QY 559 AGCGGTGGCTGGCGGCGGAGGCTTATGTGCAATGCAACAGACCCCTGGGTTGTCAAT 618
DB 197 GGATGTGATAGCGGTGGAGGCTCATTCCTTGGCGGAAACAATGGTCCATTGGGATTGAC 256
QY 619 GACGACCTTGCCTACCGTTTGGTGTGCTGTCAGTCTCGGTAGCGCGGCTCTGCAATTC 678
DB 257 AATAACACTGCATATGTTTGTGTCAGGCCCACTTAGCGGGCTCTAGCGAAGCAGCGCTGG 316
QY 679 TGTGCGGCTGTACGAGCTTACCTTACCAACACTGCTGTGCTGCGCAAGGATTTGTC 738
DB 317 TGTGTCAGTGTACGAATGAGCTTTACAGTGGACCGGTAGTGGGAAGAACTGACC 376
QY 739 GTCAGGTCACCAACACCGGTGATGATCTCAGACCAACCACTTTGATTTGCAGATGCCG 798
DB 377 GTTCAAGTCACAAACAGGGAGTGACCTCGGAATAATCACTTTGACCTGATGATCCCG 436
QY 799 GCGGCTGGTGTGGCTACTTCAACGGGTGCGGAGTCCAGTGGGAACCAACACCGGATGGC 858
DB 437 GGTGGAGGTGTGGGCTCTTTCACACAGGATGCTCTGCTCAGTTTGGGAGCTGGAACG-- 494
QY 859 TGGGCTGCTGCTATGCGGCTATTAGCTCTATTTCAGAGTGGCAAGCTTCTCTACCCAG 918
DB 495 -GGGGTCTCAATACGGGGGTGTCTCAGCCGTGACCAATGCTCCCACTTCAGCAGCT 553
QY 919 TTGAGGCTGGTTGCAAGTGGAGATTCCGATGGTTCAAGAACGCTGCAACACCGAGGTC 978
DB 554 GTCAAGCTGGATGTCAATTCGCTTTCGACTGGATGGGTGGCGCGGATTAACCCCAAGTC 613
QY 979 ACCTTCAAGCTGTACTTGCCTTGGCGGAGATCAATTCGCCAAGACTGTTGGCGAGCGCA 1037
DB 614 ACCTTCGACCTGTGACCTGCCCGGCGGACCTCACTAATATCTCGGGCTGTGTTCTGTA 672

RESULT 15

US-10-007-521-17
Sequence 17, Application US/10007521
Publication No. US20030054539A1
GENERAL INFORMATION:
APPLICANT: Schulein, Martin
Lassen, Soren F.
Kauppinen, Markus S.
Lange, Lene
Nielsen, Ruby I.
Ihara, Michiko
Takagi, Shinobu
TITLE OF INVENTION: No. US20030054539A1e1 Endoglucanases
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136
FILING DATE: 21-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366.200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 1048 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 13..906
SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-10-007-521-17

Query Match 15.1%; Score 157.6; DB 9; Length 1048;
Best Local Similarity 55.1%; Pred. No. 7.1e-34;
Matches 330; Conservative 0; Mismatches 266; Indels 3; Gaps 1;
QY 439 ACTACCGCTACTGGGATTCGTCAGACCCCTCTTGGCCCTGGGACGGAAGGCTTCTGTA 498
DB 94 AGACCCGCTACTGGGACTGCTGCAAGCAAGCTGGGATGGAGTGGAAAGGCTTCTGTT 153
QY 499 ACTAAGCCTGTACTACCTGTGCGCAAGGATGGTGTGAGCGGCTCGGTTCCGATGCCAG 558
DB 154 TCTGCTCCAGTCAGAACTTGGCATCGTAATGGAATACACTTGGCCCGACGAGAAAGC 213
QY 559 AGCGGTGGCTGGCGGCGGCGGCTGATGTCATGTGCAATGACAAACAGCCCTGGGTTGTCAAT 618
DB 214 GGATGTGATAGCGGTGGAAAGCTCATTCCTTGGCGGAACAAATGGTCCATTTGGCATGAC 273
QY 619 GACGACCTTGCCTACCGTTTCCGCTGCTGCGAGTCTCGGTAGCGCGCGCTCTCGCATTC 678

Wed Jun 18 17:55:12 2003

Db 274 AATAACACTGCATATGGTTTGTGTCAGCCCACTTAGCGGGCTCTAGCGAAGCAGCCTGG 333
QY 679 TGGTGGGGCTGTTACGAGCTTACCTTCACCAACACTGTGCTGCTGGCAAGTATTGTC 738
Db 334 TGTGGCAGTGTACCAATTGACGTTTACAGTGGACCCGTAGTTGGGAAGAACTGACC 393
QY 739 GTCCAGGTCAACCAACCGGTGATCTCAGCACCAACCACTTTGATTTGCAGATGCC 798
Db 394 GTTCNAGTCACAACACCGGAGGTGACCTCGGAATAATCACTTTGACCTGATGCC 453
QY 799 GCGGGTGGTGTGGCTACTTCAACGGCTGCCAGTCCAGTGGAAACACCAACCGATGCC 858
Db 454 GGTGGAGGTGTGGCCCTCTTTCACAAGGATGCTCTGCTCAGTTTGGGAGCTGGACG-- 511
QY 859 TGGGGTCTCGCTATGGCGGTATTAGCTCTATTTCAGAGTGGCAAGCTTCTTACCCAG 918
Db 512 -GGGGTCTCAATACGGGGGTGTGCCAGCGGTGACCAATGCTCCCAACTTCCAGCAGCT 570
QY 919 TTGCAGGCTGGTTGCAAGTGGAGATTCCGATGGTTCAAGAACGCTGACAACCCAGAGGTC 978
Db 571 GTGCAAGCTGGATGTCAATTCCGGTTTCGACTGGATGGTGGCGGGATACCCCAACGTC 630
QY 979 ACCTTCAAGGCTGTACTTGGCCCTGCGGAGATCATTTGCCAAGACTGGTTGCGAGCGCAA 1037
Db 631 ACCTTCGACCTGTGACCTGCCAGCGCAGCTCACTAATATCTCGGGCTGTGTTCTGTAA 689

Search completed: June 18, 2003, 01:59:18
Job time : 147.866 secs